

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

07/25/2011

Craig Iannini
Assistant District Attorney, Suffolk County

Dear ADA Iannini,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED]
Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan, & Daniel Renczkowski.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renckowski was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist II
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6631

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.

University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.

*Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.

*Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.

*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.

*Maintenance and repairs of all analytical instruments.

*Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.

*Oversee the Quality Control/Quality Assurance program for the Drug Lab.

*Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.

*Notary Public.

*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

*Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.

*Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.

*Writing, revising and reviewing Standard Operating Procedures (SOPs).

*Trained and supervised new chemists and interns for the department.

*Routine QC testing of products for the FDA.

*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.

*Calibration, preventive maintenance, QC and QA of analytical instrumentation.

*Complete testing of chemicals for Vendor Validation Project for the FDA.

*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)

GLP/GMP training with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS trainings with Agilent Technologies and Restek.

HPLC and LC/MS/MS trainings with Waters Cooperation.

FTIR training with Spectros.

TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Daniel Renczkowski

Education

Degree: Bachelors of Science in Forensic Chemistry,
May 2005 from Buffalo State College
GPA: 3.84, Dean's List, Honor's Recognition
American Chemical Society Undergraduate Award
Phi Lambda Upsilon Membership

Related Coursework:	Analytical Chemistry	Physical Chemistry
	Organic Chemistry I and II	Instrumental Chemistry
	Biochemistry	Forensics Laboratory
	Chemistry of Criminalistics	Physical Evidence
	Anatomy	Physiology

Employment

Massachusetts Department of Public Health Drug Analysis Laboratory

Chemist I (October 2005 – March 2008)

Chemist II (March 2008 – present)

- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- Successfully completed GC/MS training program
- Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- Responsible for maintenance and repairs of analytical instruments
- Responsible for quality control of analytical instruments and standards

Related Experience

Niagara County Forensics Laboratory

Forensic Internship, January 2005

- Conducted research on the presumptive testing of saliva
- Conducted research on the identification and detection of lubricants
- Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- Daily use of FTIR microscope and DuraSamplerII
- Familiarized with GC/MS programs

DRUG RECEIPT

CC #

BOOK #

PAGE #

DESTRUCTION #

District/Unit

Name & Rank of Arresting Officer

ID#

DEFENDANT'S NAME

ADDRESS

CITY

STATE

DESCRIPTION OF ITEMS SUBMITTED

GROSS
QUANTITYGROSS
WEIGHT

LAB USE ONLY

ANALYSIS
NUMBER

beige/white rock substance
~~green herbal matter~~
~~marijuana / roach~~

(26) p/b's
(1) p/b CIVIL
(1)

13.8g

To be completed by ECU personnel only

Name and Rank of Submitting Officer

ID#

Received by

Date

ECU Control #

No. [REDACTED] Date Analyzed: 11-30-10
City: Boston D.C.U. Police Dept.
Officer: P.O. SYBIL WHITE
Def: [REDACTED]

Amount: Subst: SUB
No. Cont: 26 Cont: pb
Date Rec'd: 11/18/2010 No. Analyzed: 4
Gross Wt.: 13.81 Net Weight: 5.77
Tests: 2499
. 8DJR

Prelim: Cocaine (C) Findings: Cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST ADJ

No. of samples tested: Evidence Wt.

PHYSICAL DESCRIPTION:

offwhite chunky substance
17 26 pbs

Gross Wt (26): 8.9966

Gross Wt ():

Pkg. Wt:

Net Wt:

1 pb = 14 g
25 pbs = small

14 g = gross wt of 1 pb = 3.2131
net wt = 2.8370

small = gross wt of 25 pbs = 5.7831
gross wt of 3 pbs = 0.6362
→

PRELIMINARY TESTS

Spot Tests

Cobalt
4 Thiocyanate (-) +
4 Marquis -
4 Froehde's -
4 Mecke's -

Microcrystalline Tests

Gold
4 Chloride +
4 TLTA () +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 11-26-10

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS
OPERATOR DJR

DATE 11-30-10

Sample #: [REDACTED]

samples tested: 41

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	0.2438	X	0.1413	26			
2	0.1878		0.0855	27			
3	0.2231		0.1256	28			
4				29			
5				30			
6		X =	0.3524	31			
7		$\bar{x} =$	0.1175	32			
8		$(\bar{x})_{25} =$	2.9375	33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

Calculations:

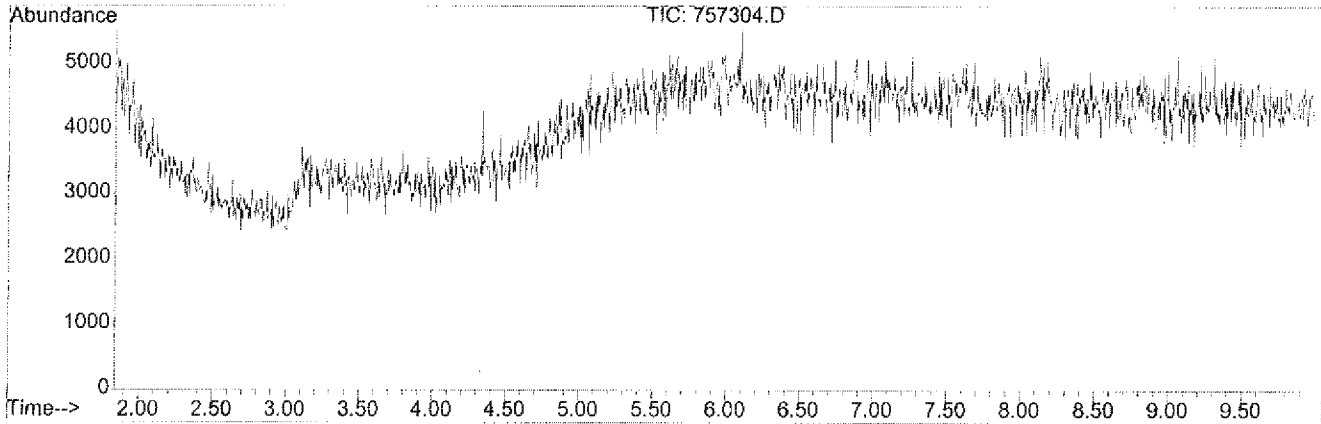
$$\begin{aligned}
 \text{Est Net} \\
 \text{wt} &= 2.9375 + 2.8370 \\
 &= 5.7745
 \end{aligned}$$

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757304.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 13:06
Sample Name : BLANK
Submitted by :
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE

✓ ASD
7-20-11



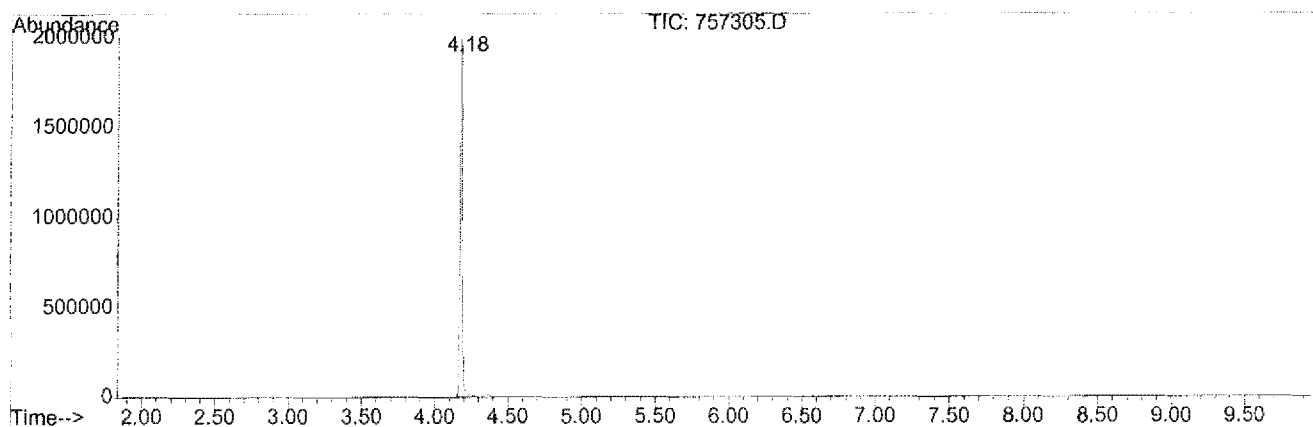
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757305.D
 Operator : ASD/DJR
 Date Acquired : 26 Nov 2010 13:19
 Sample Name : COCAINE STD
 Submitted by :
 Vial Number : 5
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.179	1999410	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

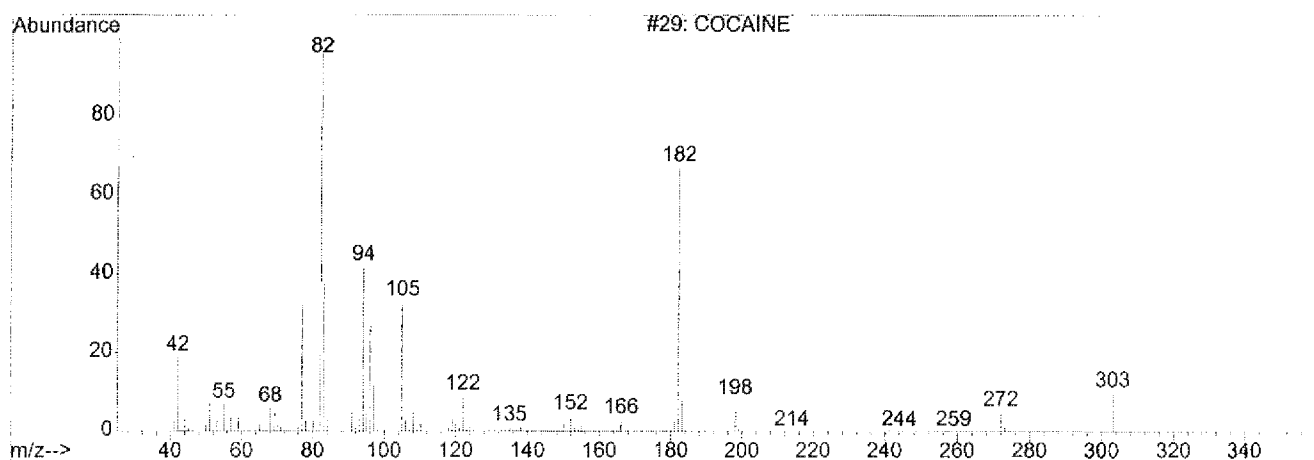
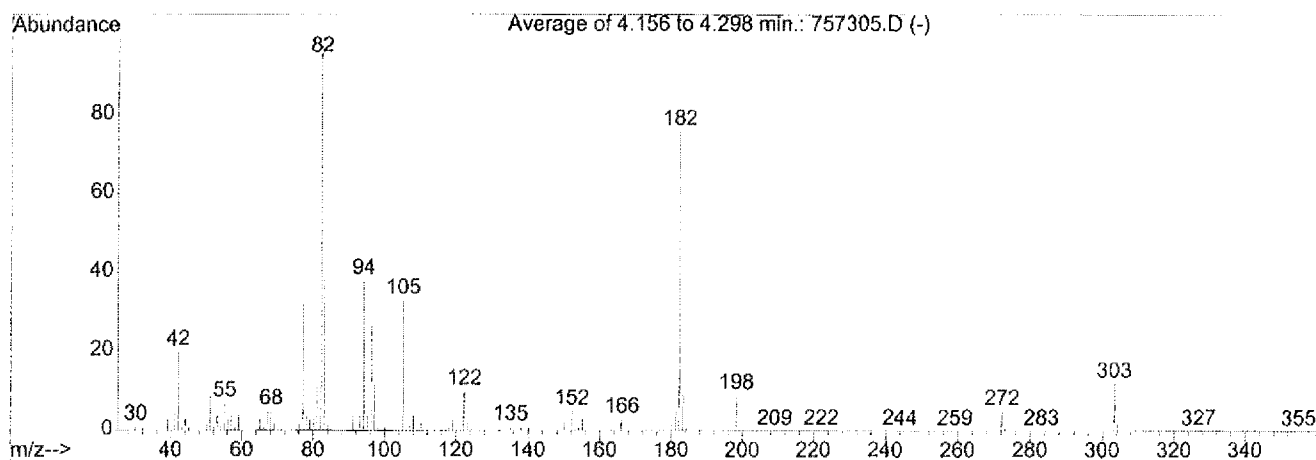
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757305.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010   13:19
Sample Name     : COCAINE STD
Submitted by    :
Vial Number     : 5
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

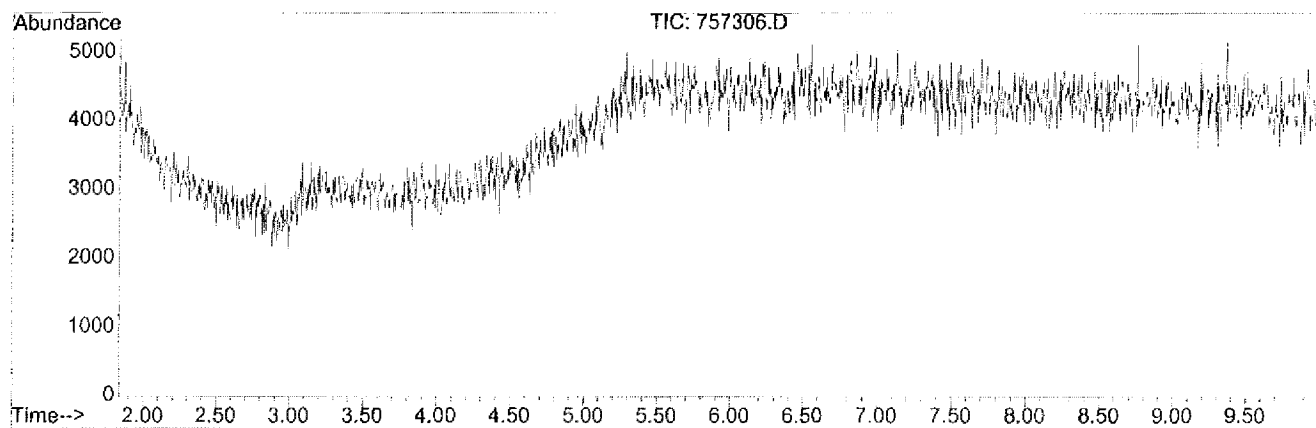
PK#	RT	Library/ID	CAS#	Qual
1	4.18	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757306.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 13:32
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



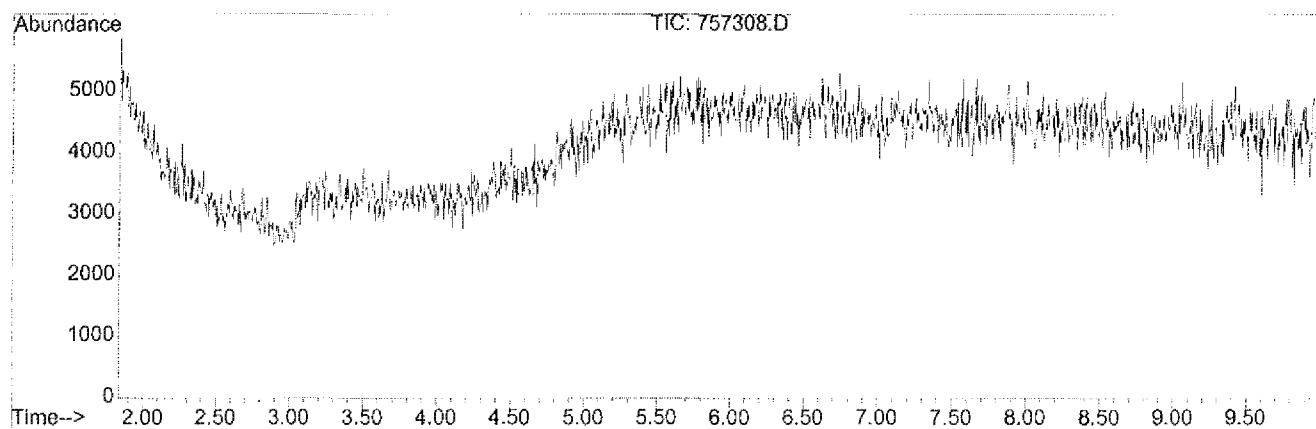
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757308.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 13:58
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



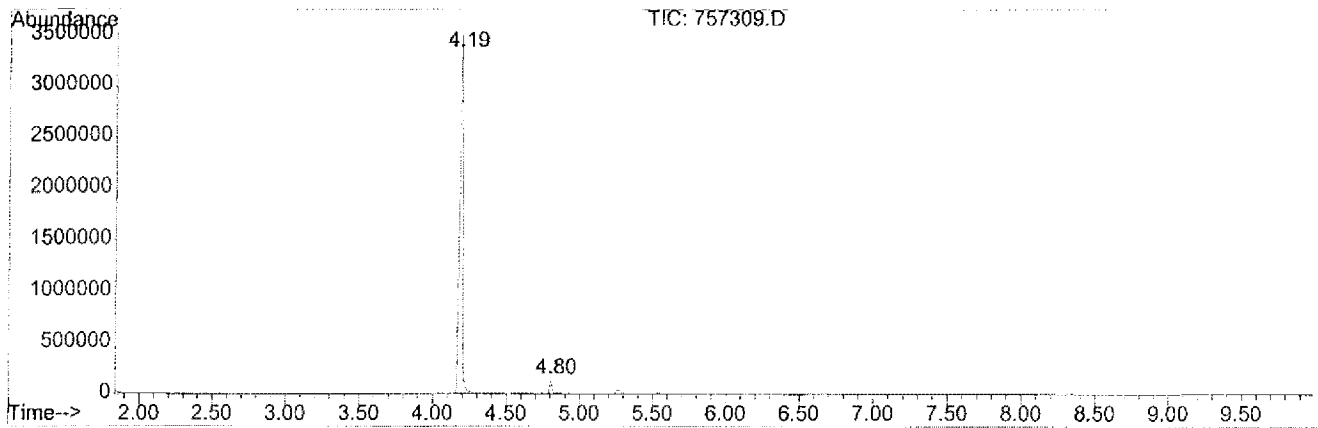
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757309.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 14:12
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 9
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.191	5248571	96.86	100.00
4.802	170049	3.14	3.24

Area Percent / Library Search Report

Information from Data File:

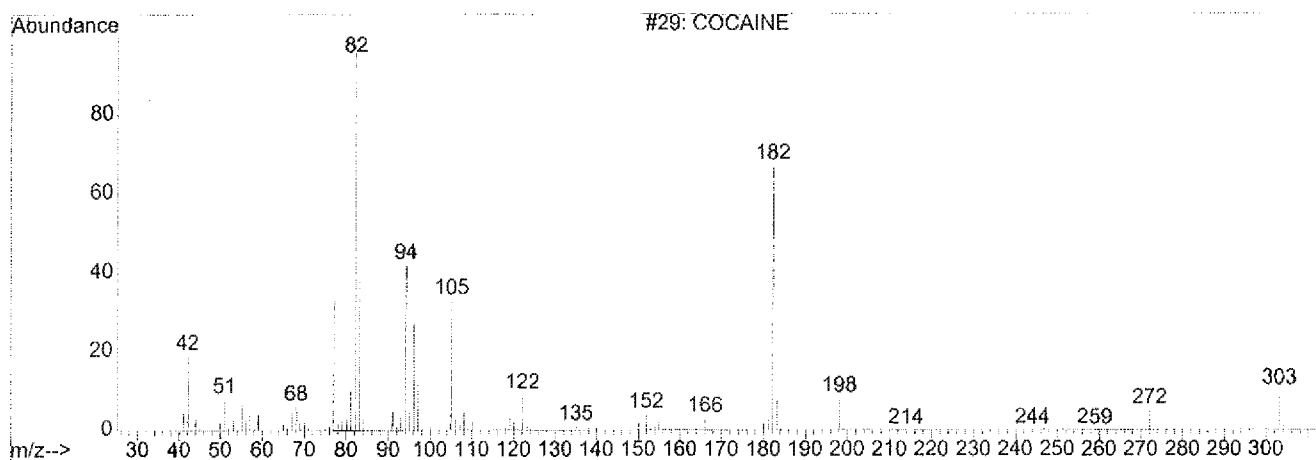
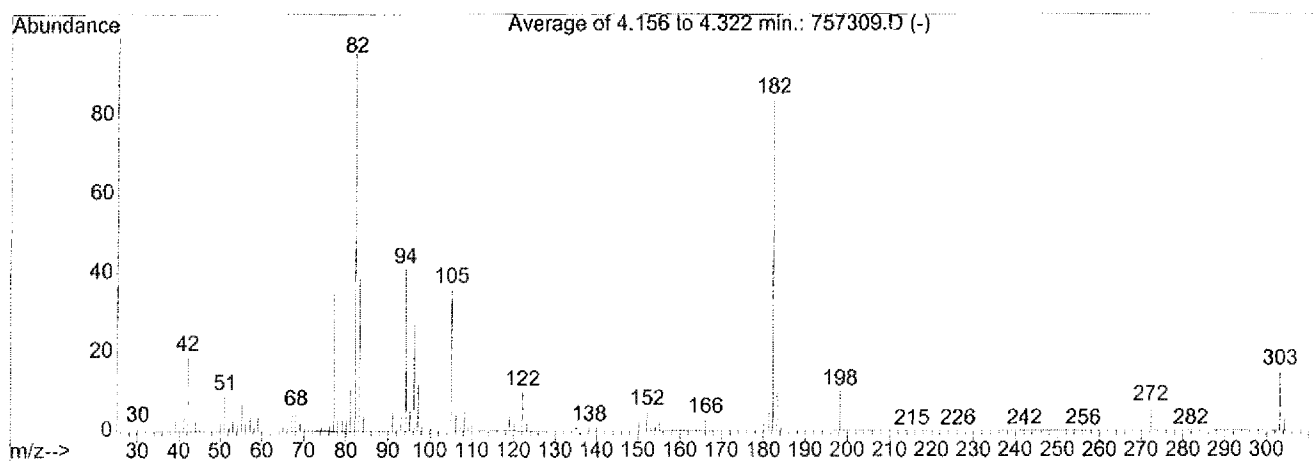
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757309.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  14:12
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 9
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

PK#	RT	Library/ID	CAS#	Qual
1	4.19	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

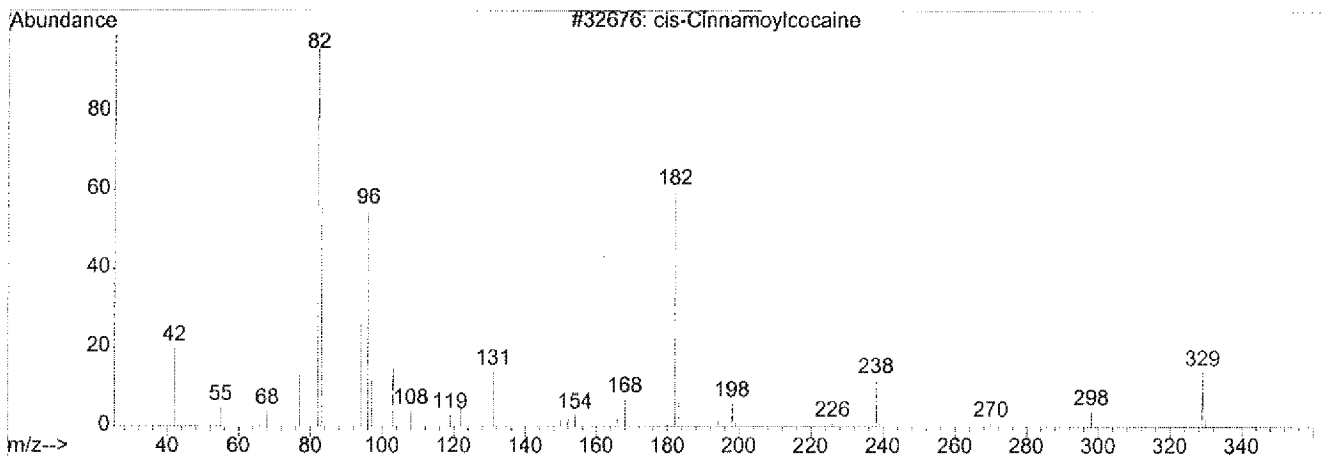
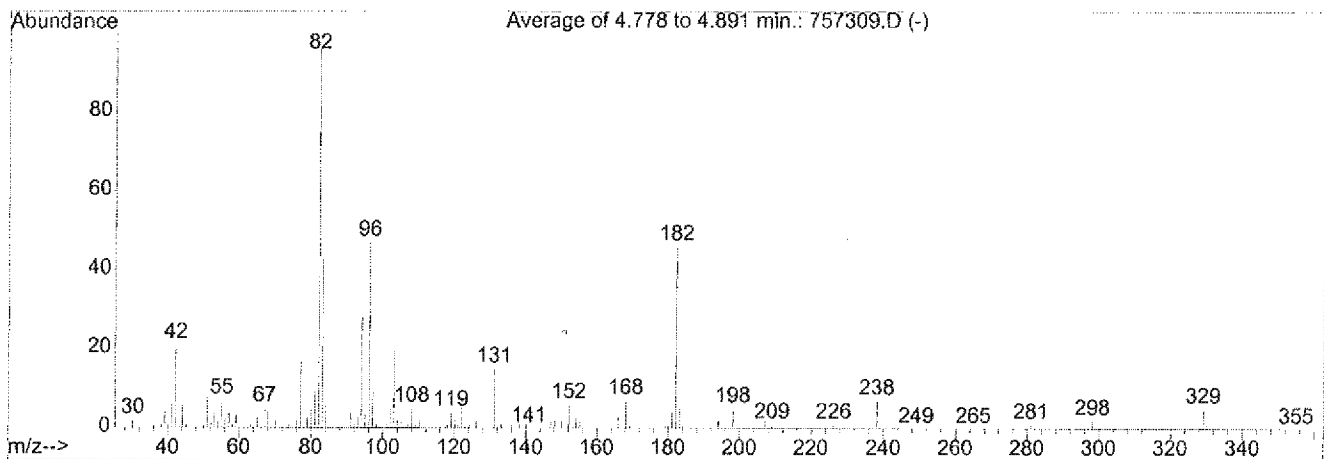
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757309.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  14:12
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 9
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

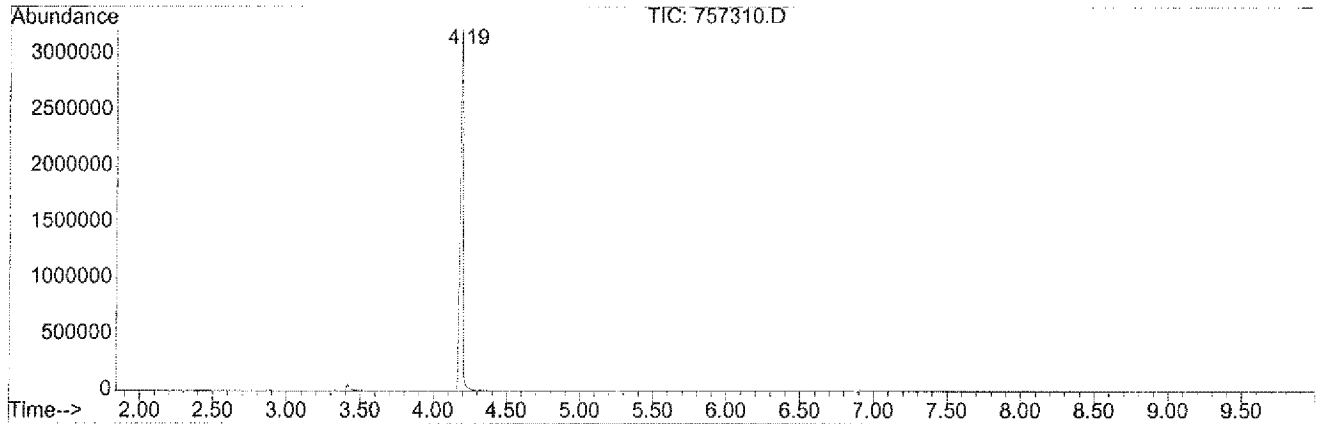
PK#	RT	Library/ID	CAS#	Qual
2	4.80	C:\DATABASE\NIST98.L		
		cis-Cinnamoylcocaine	000521-67-5	98
		Cinnamoylcocaine	1000247-78-7	91
		Cocaine	000050-36-2	59



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757310.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 14:25
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 10
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.185	4337552	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

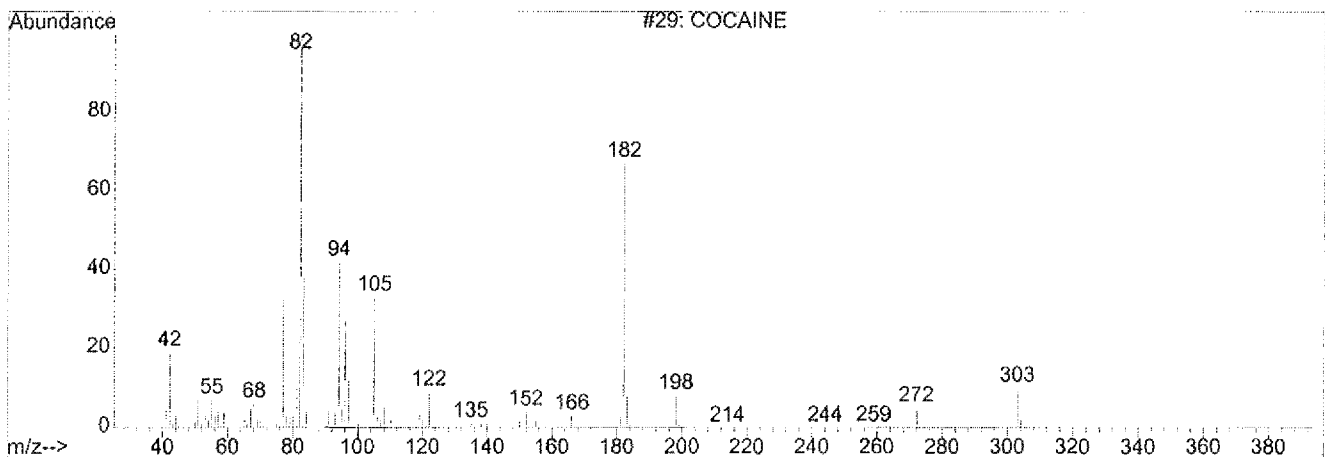
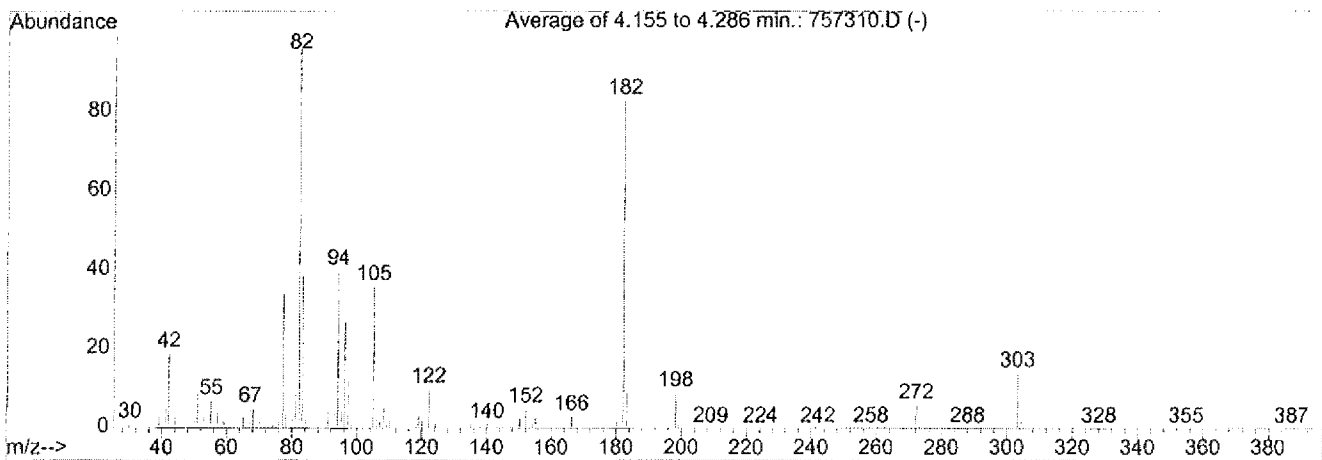
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757310.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  14:25
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 10
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

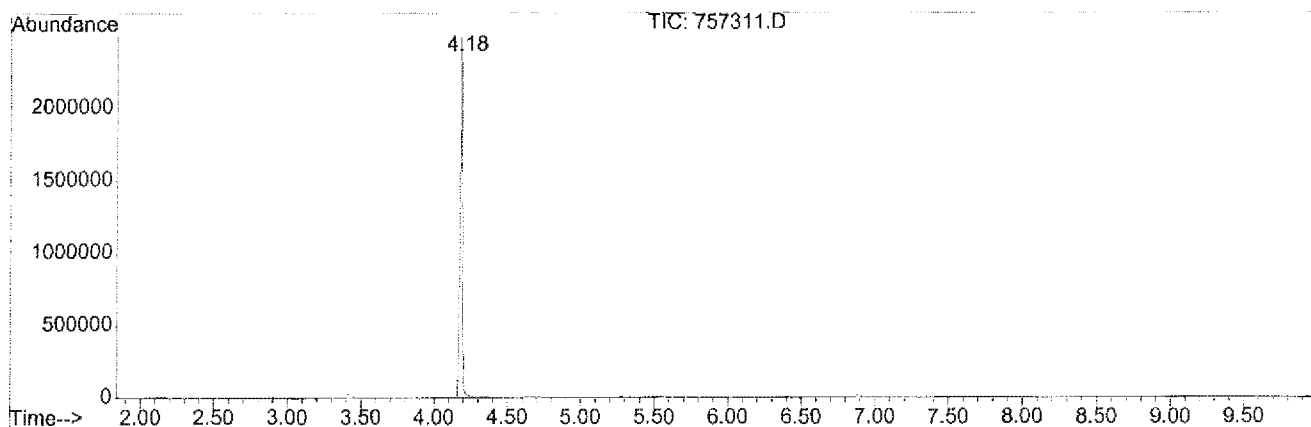
PK#	RT	Library/ID	CAS#	Qual
1	4.19	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757311.D
 Operator : ASD/DJR
 Date Acquired : 26 Nov 2010 14:38
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 11
 AcquisitionMeth: DRUGS
 Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.179	2719468	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

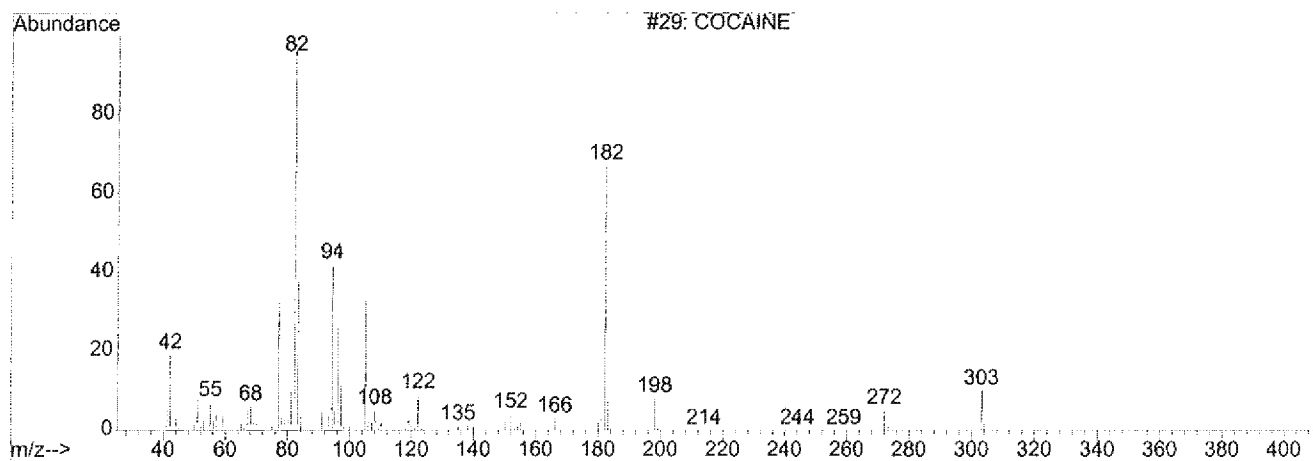
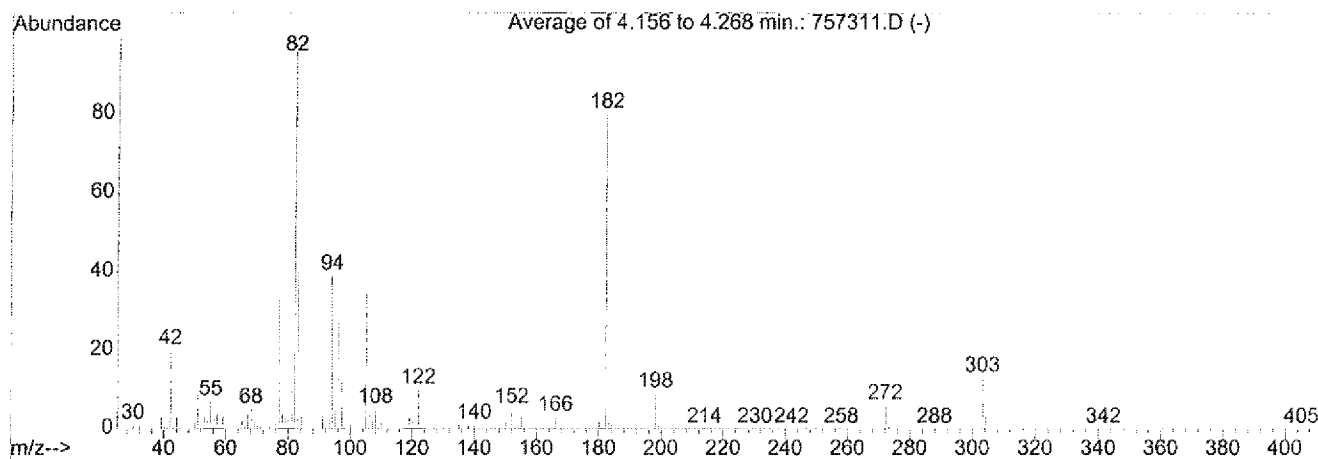
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757311.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  14:38
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 11
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

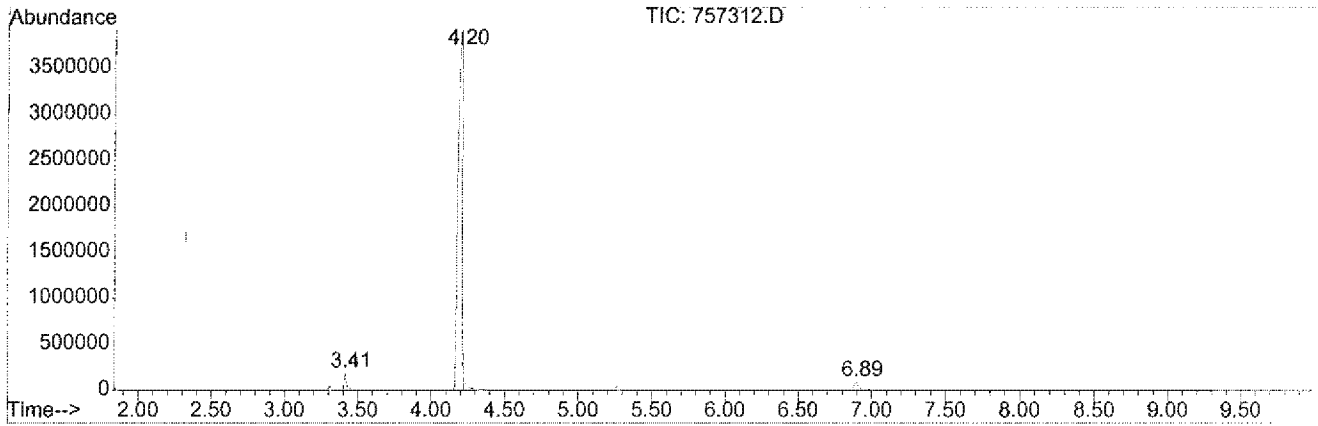
PK#	RT	Library/ID	CAS#	Qual
1	4.18	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757312.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 14:51
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 12
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.414	256118	3.08	3.27
4.203	7836560	94.20	100.00
6.895	226192	2.72	2.89

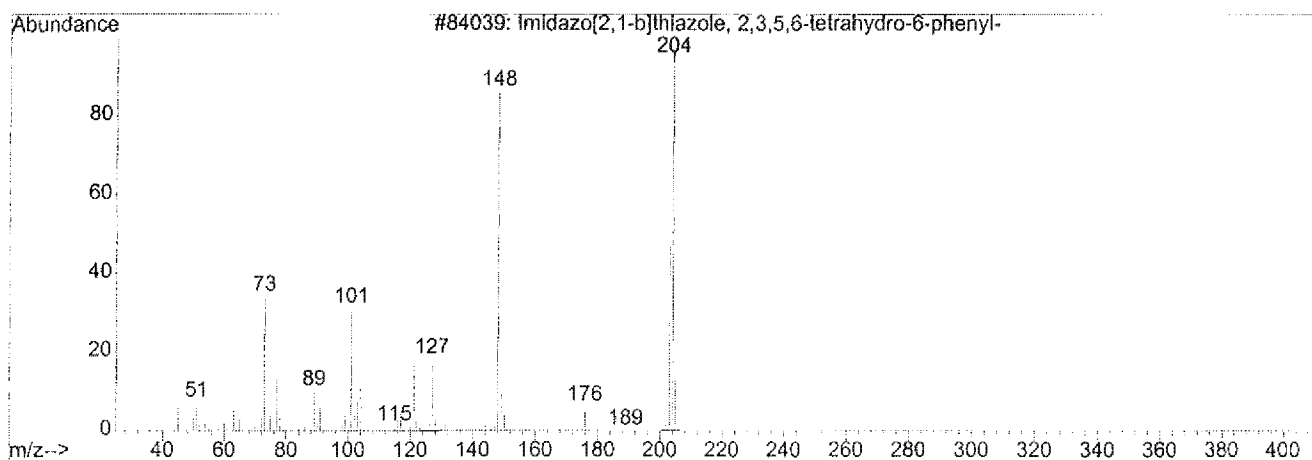
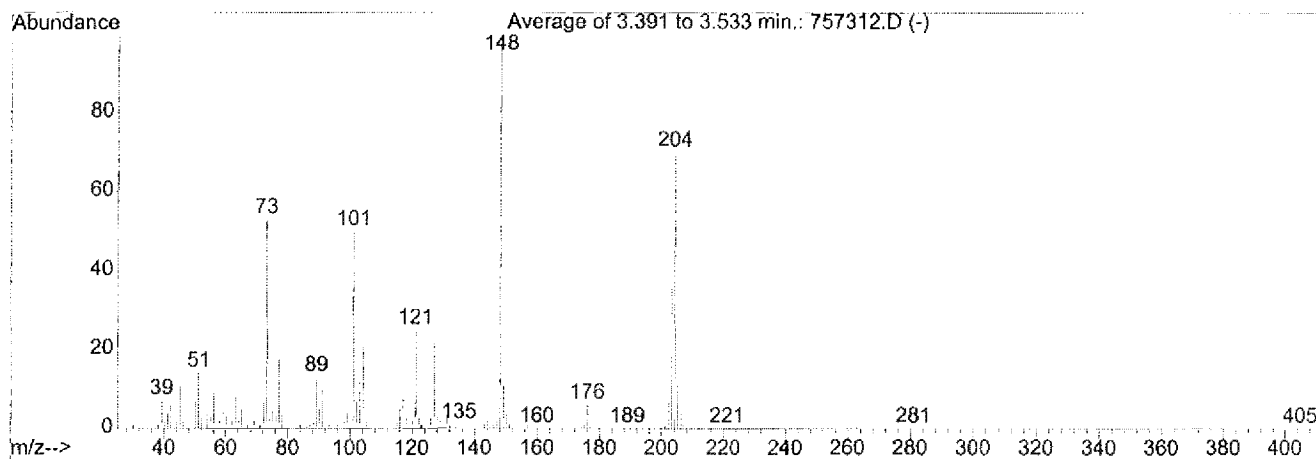
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757312.D
 Operator : ASD/DJR
 Date Acquired : 26 Nov 2010 14:51
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	3.41	C:\DATABASE\NIST98.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	98
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	97



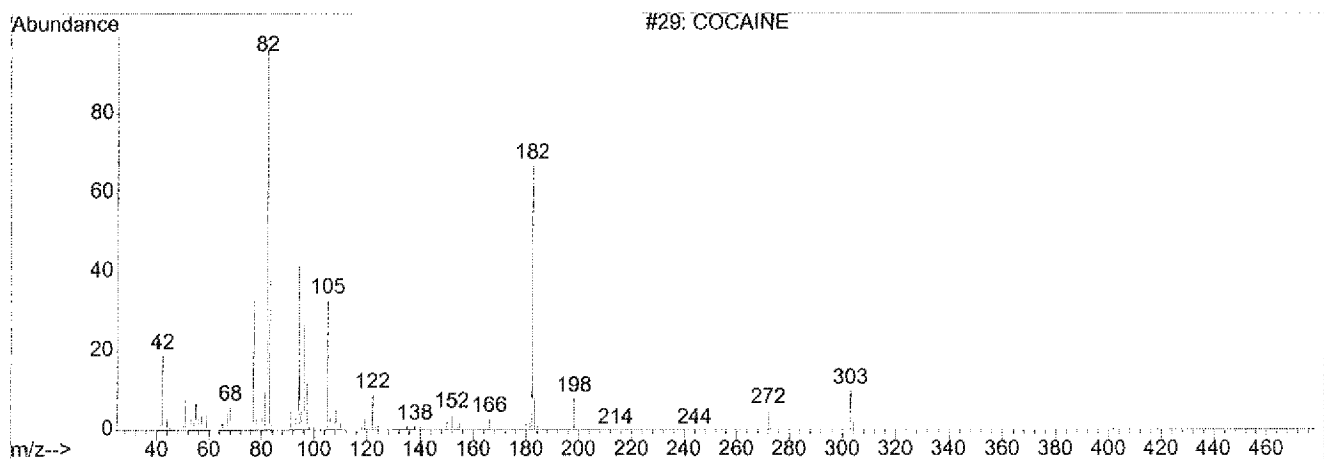
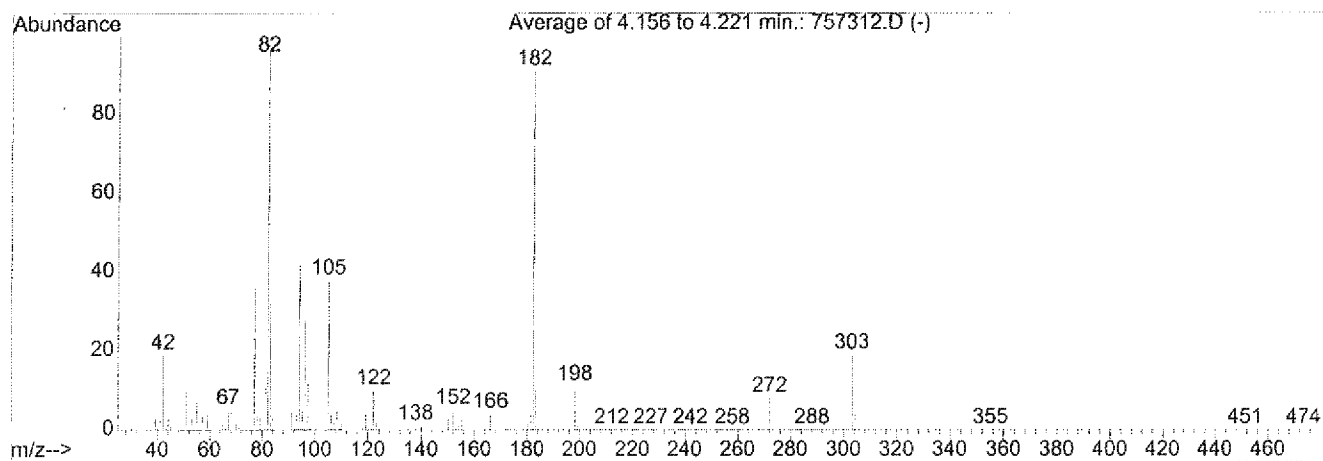
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757312.D
 Operator : ASD/DJR
 Date Acquired : 26 Nov 2010 14:51
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 12
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90
 C:\DATABASE\PMW_TOX2.L Minimum Quality: 90
 C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	4.20	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

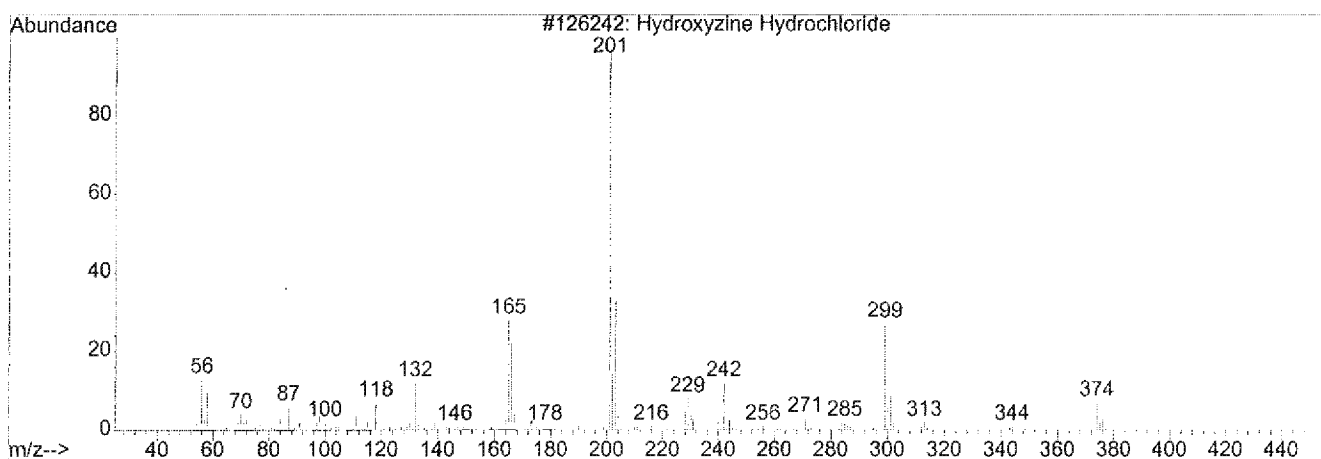
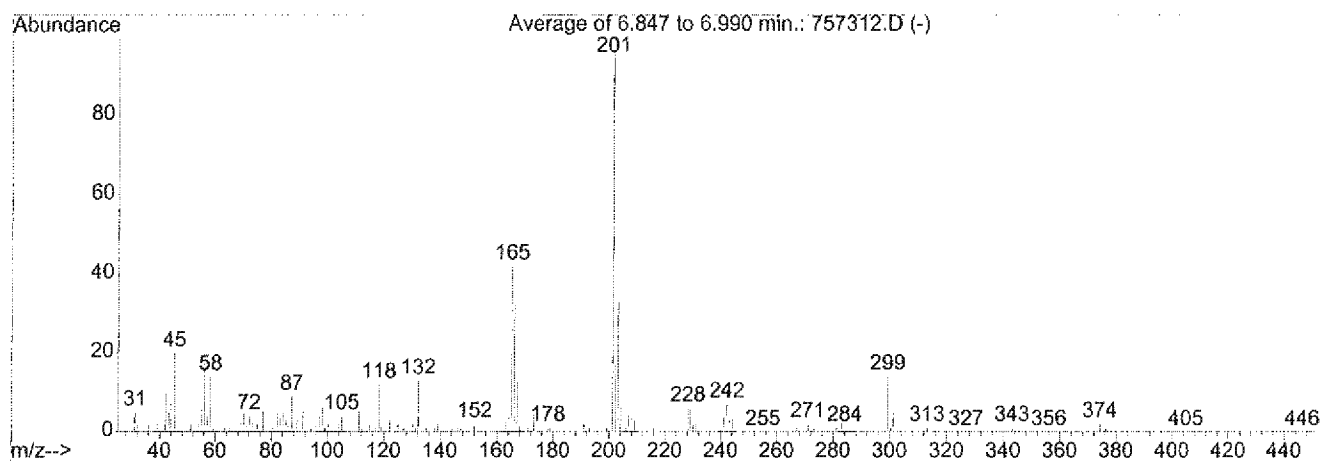
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757312.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  14:51
Sample Name     : ██████████
Submitted by    : ASD
Vial Number     : 12
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

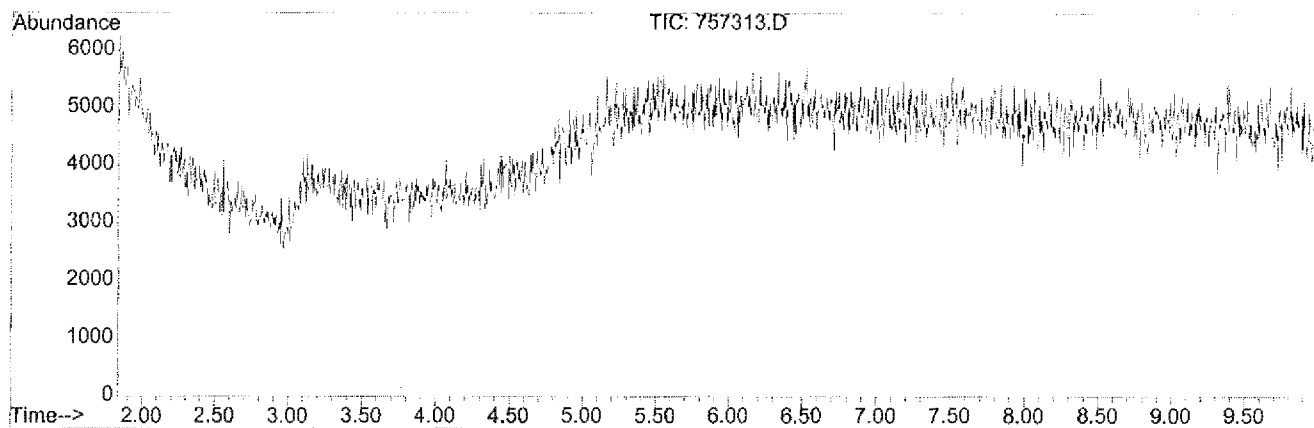
PK#	RT	Library/ID	CAS#	Qual
3	6.89	C:\DATABASE\NIST98.L		
		Hydroxyzine Hydrochloride	002192-20-3	96
		Hydroxyzine	000068-88-2	95
		Hydroxyzine	000068-88-2	95



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757313.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 15:04
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



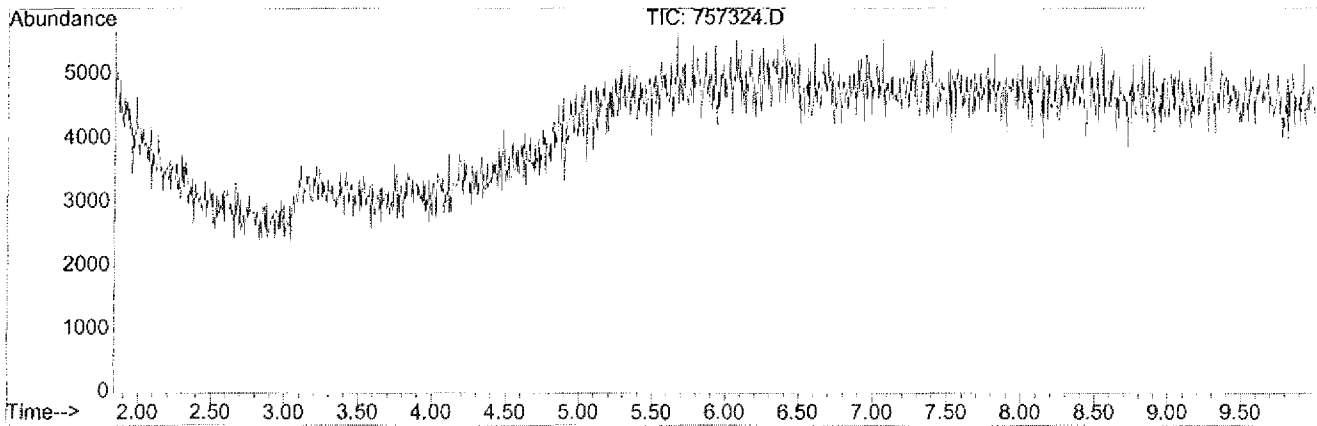
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757324.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 17:29
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



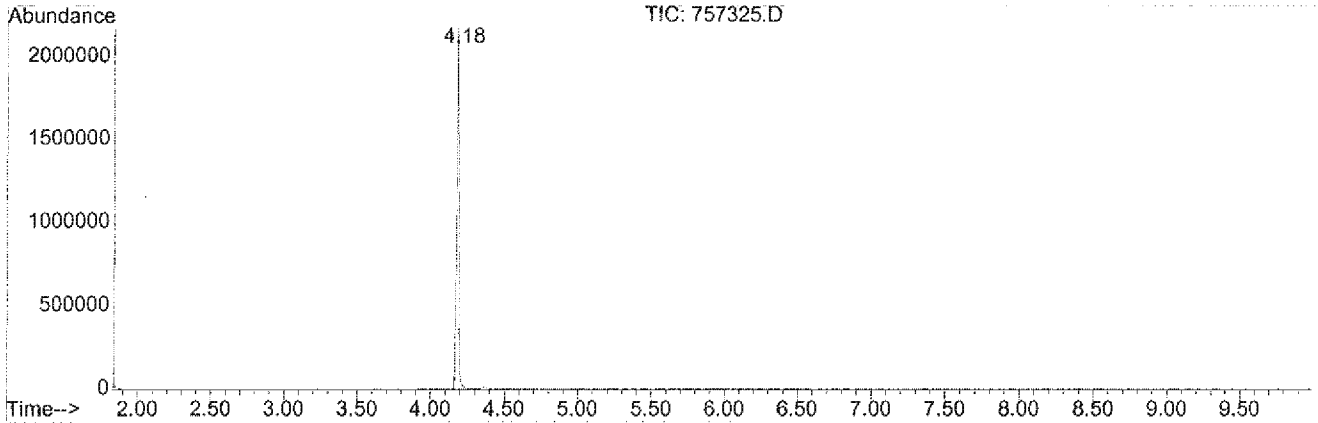
Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757325.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 17:42
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 25
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.179	2169525	100.00	100.00

Area Percent / Library Search Report

Information from Data File:

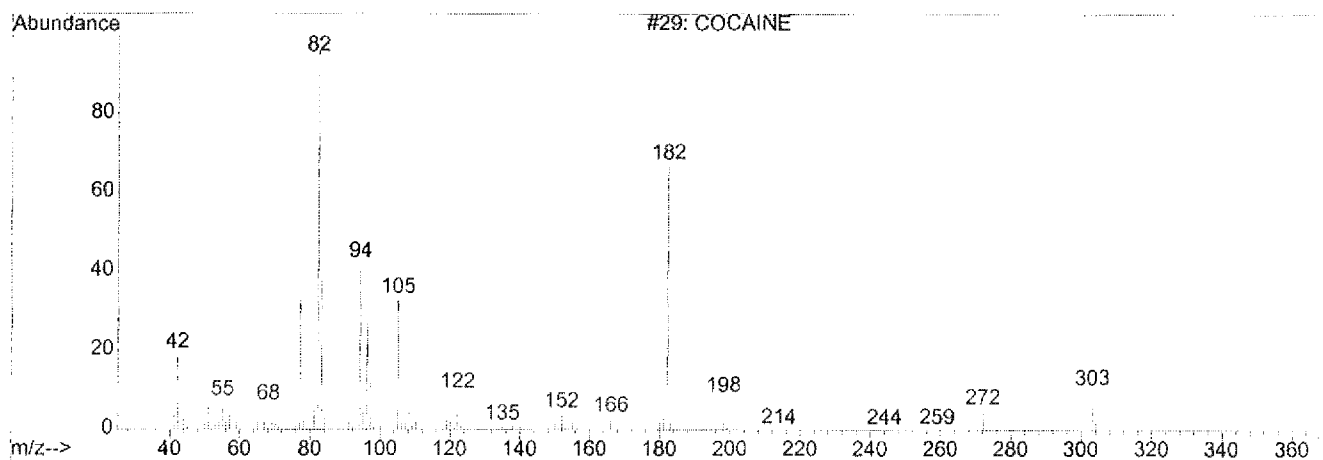
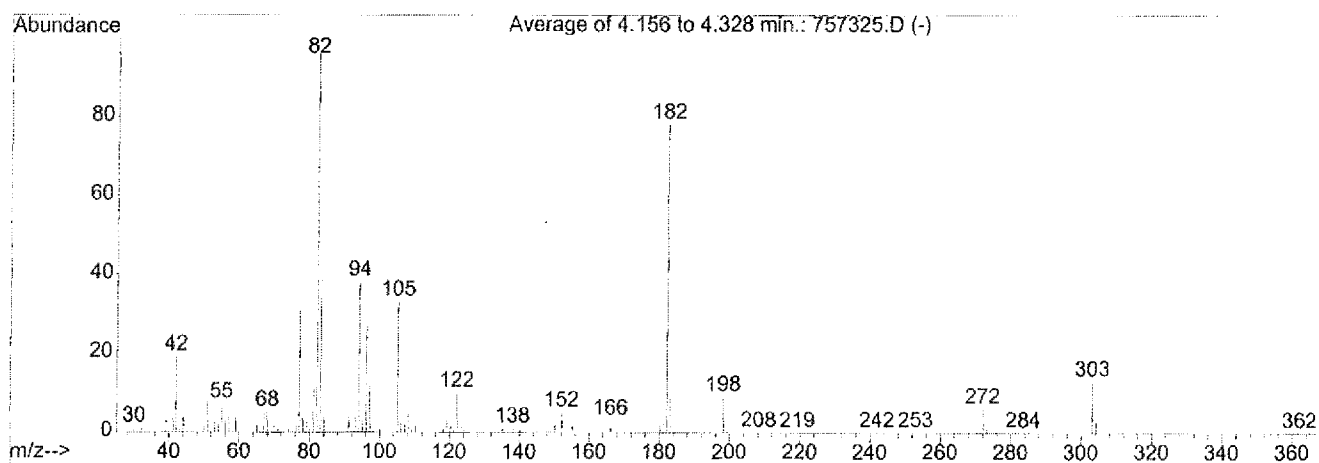
```

File Name       : F:\Q4-2010\SYSTEM6\11_26_10\757325.D
Operator        : ASD/DJR
Date Acquired   : 26 Nov 2010  17:42
Sample Name     : COCAINE STD
Submitted by    : ASD
Vial Number     : 25
AcquisitionMeth : DRUGS
Integrator      : RTE
  
```

```

Search Libraries: C:\DATABASE\SLI.L           Minimum Quality: 90
                  C:\DATABASE\PMW_TOX2.L      Minimum Quality: 90
                  C:\DATABASE\NIST98.L
  
```

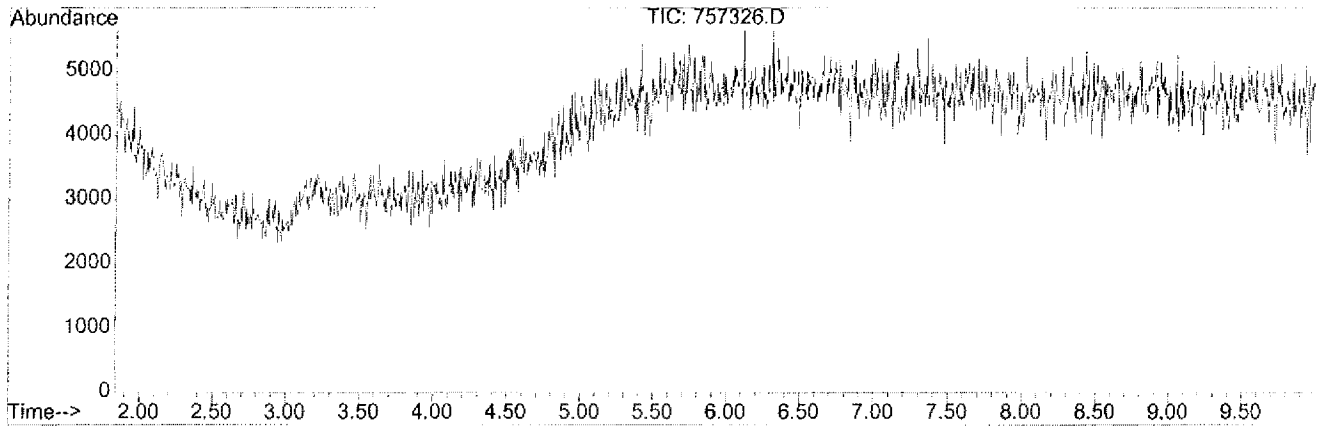
PK#	RT	Library/ID	CAS#	Qual
1	4.18	C:\DATABASE\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM6\11_26_10\757326.D
Operator : ASD/DJR
Date Acquired : 26 Nov 2010 17:55
Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
-----------	------	--------	---------

NO INTEGRATED PEAKS